

## ABSTRACT

A method and apparatus aims at generating uniform images of an active matrix OLED display device which consists of a plurality of pixel devices. Each of the pixel devices includes a driver unit to drive an OLED to display.

- 5 The cathode of the OLED connects to a positive power supply which provides a voltage to increase the electric potential of the OLED and reduce the voltage difference between the source electrode and the drain electrode ( $V_{sd}$ ) of the driver unit during operation and keep the voltage difference between the source electrode and the gate electrode ( $V_{sg}$ ) unchanged so
- 10 that output current fluctuations of the driver unit decreases while the driver unit is ON when the threshold voltages are different due to characteristic variations of the driver unit.